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Human: auanosine triphosphate binding protein; brain; histamine binding: e-protein compled receptor protein; styrat transduction regulation; Alzheimer's disease; memory loss; Schizophrenta; insomnia; narcolepsy; theomatoid arthritio; colliss, bypertension; hypertension; anorexist pain:
                                                                                               this sequence is the human quanosine triplosophate binding protein (de-protein) conjustic-type receptor protein (designated BG2) of the invention. BG2 is a member of the 6 protein conjugate-type receptor supering and shows significant homology to other muscarinic acetylcholine receptors. BG2 can be used in a screening method for identifying ligands binding to the BG2 receptor and for compounds which are agonists or antagonists to the binding of ligands to BG2 tereptor, and which can be used for the binding of ligands to BG2 tereptor, and which can be provention and treatment or memory and learning difficulties and disorders of the control of physiological functions such as blood
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This invention describes the isolation of a novel human muscarinic acetyleholine on acetyleholine for wording the effects of acetyleholine on acetyleholine cosponsive cells, maylike for long controlled to the effect of acetyleholine on acetyleholine cosponsive cells, maylike for long of the copypeptides may be used to detect naturally occurring mutations of the copypeptides may be used to detect naturally occurring mutations of the copypeptides may be used to have) a mACHR-6 (e.g. biological processes mediated by matcher 6 or contraction of a mojecule phosphatidylinositol turn over and signalling, secretion of a mojecule copyphatidylinositol turn over and signalling, secretion of a mojecule contraction of a mojecule cell, treat disorders (e.g. amnestia, apraxia, agnosia, amnestic cell, treat disorders (e.g. amnestia, apraxia, agnosia, amnestic spatial disorders (e.g. amnestia, apraxia, agnosia, amnestic dysnomia, annestic spatial disorders (e.g. amnestia), and lewry body dementia copy in the match of disturbances, and lewry body dementia associated delitimm, schizo-effective disorders (e.g. schizophrenia associated delitimm), schizo-effective disorders (e.g. schizophrenia), and depressive illness), affective disorders, sleep
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          disorders (e.g. REM sleep abnormalities, paradoxical sleep abnormalities, sleep-waketulness, and body temperature or respiratory depression abnormalities during sleep), pain generating mechanism disorders (e.g.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          related to irritable lowel syndrome (IBS), or chest pain, movement disorders (e.g. related to parkinson's disease), eating disorders (e.g. insulin hypersecretion related obesity), drinking disorders (e.g. diabetic polydipsia), smooth muscle related disorders (e.g. IBS,
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acetylcholine responsive cell; phospharidylinosital tarn-over; smooth muscle cell contraction; nervous system disorder; alandulat; schizo-effective disorder; affective disorder; sleep disorder; movement disorder; caling disorder; drinking disorder; human.
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methods to server for medicalots of receptor activity (claims d). Such
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used as therapeuties to treat disorders directly or indirectly mestaric
histamine receptors (claims)). The characterization of the polymeter for is
a useful for forces analysis, disorders applications, and
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                                          461 - AVTAS FEGLUMARTTEDATT RAACHORCVI OVWYTG GIVELL MANGAVNEVLYFE CHIEFTR (4.70)
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                          181 SSTPEGRAEFFUNYFLLIASTLEFLSVIEFNISTKINLGBETELLLAGAEFAA 242
                                                                                                                                           24.1. OPERPPEADESPEPPERS WIS WERWERGINS AMEDITERS WIS LANGUAR AND THE SECOND SECONDS.
                                                                                                                  241. apoppiosaspoppippidowirow-pkaharoniipitha yaparonavaaronat Faranavaron
                                                                                                   98 185 Score 2357; pB 21; Fougili 445; 99,88; Pred, No. 7,9c 184;
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                                                                                   1. MERAFFELDELMASTALADITAAATJAAFTESAAWTAVIJAAFWALJ VATVIEDNALVHIJAFV 160

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[2] SALLANIA SEGLANIKANATKANAGURIANANIKALIANIKANIKAH LIPUTAH SWELISPA 1899
[17] ETHILLI GALLINI HILLI SSQUELIS SIGNATURA SALLI HILLI HILLI KANDARA SALLI HILLI HILLI KANDARA SALLI HILLI HILLI KANDARA SALLI HILLI HILLI KANDARA SALLI 
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of receptor, and identityles, detecting or isolating mental borms of
the receptor. Has GWA molecules are also usual in each theory? If
the treatment of inframmation of alteraics, the bound histomine Ha-
reequot protein is usefur in identifying modulators of the bound
histomine HA receptor, which in furn are useful as therapostic and
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        2.1. ASIT GEODALI AND HASPROTEKEN SALLAK DALI AMAREKAN SALLI DE FULDALI ENTRESSE PER ELIMBERT ELIMBERT.

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fierapy, antiparkinsonian; modropic: neuroprotective;
neurokopic; antidopressant: antiarrethmic; antidiabetic;
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ligand response in a responsive evely (vii) signal ligand binding via phesphatidylinestrol turnover, and (viii) modulate phospholipase e activity. The products can be used to treat: disorders mediated
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       airways disease; cardiac muscle disorders, e.g. pathologic
bradycardia or tachycardia, arrhythmia, flutter or fibrillation;
and gland related disorder pach as xerostowia or diabetes mellitus.
The products can also be used for defection, diagnosis and drug
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sleep-waketulness, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present sequence represents a movel rat G protein coupled receptor, termed Rh8495, as deduced from a frontal cortex cDNA clone (see AAX59168). The invention provides buman, rat and mease the MacA5 polymerises these (inertained polymorles) these corresponds to the transmembrane regions of the MacA5 and antisense nucleic acid molecules), expression and inhabds polymeric admission that the angelogical polymeric acid from the physical properties and antibodies, and a method of modulation phosphaidylicosited method of modulation (i) interact with a thadds? Idand, such as acetyficibilize of carried industry binds for the A55.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                or calriam channel). (iv) modulate cytosolie fon, e.g. calcium concentration, (v) modulate the release of a neurotransmilter, e.g. acetylcholine or carnitine from a neuron, (vi) modulate a fih8495
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    urinary incontinence, oesophageal achalasia or chronic obstructive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 related disorders, e.g. annesta, apraxió, agnosta, amnestic
dysnomia, annestic spatial disorientation, kluver-Aucy syndrome,
Alcheimer's related memory loss and learning disability, disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             affecting consciousness such as visual hallucinations, perceptual disturbances or delectum associated with Lewy body dementla, schilocellective discreters, schilophronia with mood swings.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     depressive illness (primary and secondary); affective disorders such as REM sleep abnormalities in patients suffering from e.g. depression, paradoximal electrophysical procession abnormalities during sleep, disorders affecting pain generation mechanisms e.g. pain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New murther acid enreading an isolated Stratein explicit receptor useful for treating nervous system related disorders
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                                                                                     /note "transmembrane domain"
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Anote "transmembrane domàin"
                                                             "transmembrane domain"
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445 AA: Sequence

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But; quanosine triphosphate binding protein; bain; bustamine triofnou; G-protein coupled receptor protein; signal transduction requisition; AlZheimer's disease, memory loss; schiZophrenia; insomnia; nate (1983; rheomatoid arthritis; colffus; hyperteusion; hyperteusion; anorexia; pano.
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Hidaka T. Shta Hi
Length 445
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94,78; Prod. No. 2, 97 173;
94,78; Prod. No. 2, 97 173;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protein (G-protein) coupled receptor protein (GRRP). The invention relates to the isolation of genes for novel GRRPs (AMB5881-81582) editions the isolation of genes for novel grees were isolated from brain tissue, especially hippocompal tissue in the case of the human BG2 gene (AAA70547). The proteins cause the lowering of intracellular AMP concentrations when stimulated by historine The DNA and protein can be used in the identification of compounds which regulate the signal transduction of BG2 and are useful as drugs for the frequent and protein prevention of BG2 and are useful as drugs for the frequent and protein prevention of BG3 and are useful as drugs for the frequent loss, settizophrenia, insomnia, narcolepsy, rheumatoid arthritis, collists, hypertension, hypotension, Huntington's disease, anorexia, obesity
                                                                                                                                       Rat; quamosine triphosphate binding protein; brain; histamine binding; d-protein compled receptor protein; signal transduction regulation; transduction regulation; and arguments, a disease; memory loss; schizophrenia; insomnia; nateology; themmatoid arthritis; colitis; hypertension; hypotemion; amoreous poin; huntimaton's disease; obesity.
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88.18; Pred, No. 1.1e-159;
Fryo. 7; Mismatches 12; Indels 34;
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                                                                                                              Rat G protein coupled receptor protein.
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04-DEC-1997;
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or calcium channel), (iv) medulate cytosolic lon, e.g. calcium concentration, (v) medulate the release of a neurotransmitter, e.g. aretylcholine or sarbitine from a neuron, (vi) medilate a fileBad floated response is a responsive eet. (vii) signal liquid birdinel response is a responsive eet. (vii) signal liquid birdinel birdinel birdinel birdinel birdinel birdinel birdinel birdinel activity. The praducts can be used to reat disorders mediated by abusinel libudate prolipping activity such as nervous system. urinkum disordars, e.a. diabetic polydipsia; smooth muscle nelated depression, paradoxical sleep abnormalities, sleep waketulness, and nd alred related disorder such as xerostomia or diabetes mellitus. The products can also be used for detection, diagnosts and drug carnitise, (ii) interact with a princip or another princip which naturally binds to th8445, (iii) modulate the activity of an ion channel (e.g. a calcium activated chloride channel or a potassium related disorders, e.g. ammesia, apraxia, agmosia, ammestic Apsnomia, ammestic spatial disorientation, Kluver-Bucy syndrome, Altheimer's related memory boss and learning disability; disorders urinary incontinence, evophageal achalasia or chronic obstructive disease cardiac muscle diseases, e.g. pathologic tradycardia or tachycardia, arrhythmia, flutter or tibrillation; ciNA clone (see AAX59161). The invention provides human, rat and mouse inhead polymeter lists (including polymeter dissertational at the transment and rate regions of the lead and antisease meeting molecules), expression sectors, hast calls, transment animals, though pulpepides and arritagines, and a method of monitaring phaspatisty into sitol method of the contribution of the transment in the contribution of the contribut affecting constrainess such as disual halloginations, perceptual attervive disorders scorp: disorders affecting pain generation mechanisms e.g. pain hady remperature or respiratory depression abnormalities during as PEM sleep abmormalities in patients suffering from e.g. esting disorders e.g. insulin hypersecretion related obesity or disorders, e.g. Infitable bower syndrome, diverlicular disease, wearent discussing disturbances or delegium associated with towy body dementia, schitze-effective disorders, schizephomia with meed rwinas, depressive interest (primary and secondary); affective disorder related to irritable bowel syndrome or chest pains movement s dispuse related as disorders oug. Parkings."

76.1%; Score 1820; 18.30; Lonath 362; 92.8%; Pred. No. 6.9e-141; dive 9; Mismatches 16, Indels 2. Canservative guery Mateh Bost Local Similarity Matehos (7) Conserv

162 AA.

Sylmothesis

Claim (b) Fig 2A-D; 59pp; English.

68. APRILAM PARTICIONA WASANCIA VATERBINI DA BELLA ELEGANICADE 410.

11. FELLE ELLE HELLE HELLE FOR POWER PROFESSOR ELLE HELLE HELLE HELLE HELLE FOR ACTION OF PROFESSOR ELLE FOR ELLE 84 GAPTTRIAVIOVETTREMIECECTRIALAVITATION SAFATAT (SEPARATE SVERICE) 12. Pertitpitistillity | Hilling | H 180 - 1815 http://document.com/documents/docum 42.4 OSBO COLON CORRESEMENTO, SE OLISE DE ANOTA LA VALOR COLANDA COLONO DE ANTO PORTO DE PORT I deliberation of the contraction of the contractio (14) Aggin Frich Anthon Why Anton D. Actual and S. Comercial Anton Theorem (1978) (197 spanishwayilengahenishmaning input in the same of the properties of the same o 204 TEPFEPPESVIFFNESTELNIÇERI KEREKOMEKANDEPPERQESPEP PERMESW 23.3 (\$CEGIAME anto ACEAMA Although models of ACAMA and Action (\$1.00 A) and ACAMA ACTION (\$1.00 A) and ACTION (\$1.00 A) 44 s CWK 445 3 Š 1 3

EACHE 6; Bussellisin Letyletaline receptor 6; disorder, accretion; an Agylatoline responsive rell, phesphalldylmostrol terrover) smooth muscle cell centraction; berooms system disorder; diandlar; sobjan effection disorder; altowite disorder; sleep disorder; AAW92979 standard; Protein; 962 AA 14-MAY-1999 (Tirst outry) Rat mACHR-6 protein. AAW92974: 2 AAW 12376 RESULT 

Nucleic acids encoding mescarinic acetylcholine receptor 6 - user: for modelating the effects of acetylcholine on acetylcholine movement disorder; eating disorder; drinking disorder; rat 9708-0985090 (MILL ) MILLENNION PHARM INC 9703-0985090. WP1; 1999-214064/18. N PS18: AAX02687. responsive cells 04 DEC 1997; 04 - DEC: 1997; 16. MAR 1999. Granted: 1 Ab: US5882894-A. Raffus sp.

(c.a. a neurotransmitter or a glandinar entyme), or contraction of a smearly asset by the contraction of a smearly contraction of a smearly about a smearly asset of the contract of a smearly asset of sections of a smearly asset of sections of a smearly asset of sections of the contraction of a smearly of the contractions, perceptual disturbences, and Lewis body dementa a section for a section of the contractions, section of the contraction of the contractions of the contraction MACHR-6 gene and determine II a subject with the matated gene is at risk at (2.5 kg proffgrent) — 100) a mACHR-6 related shoulder, mediated cosing activity mediated by mACHR 6 (ca. moleconical processes mediated by Phys. 101 and Section of processes mediated by This invention describes the isolation of a newel human measuring acceptable of modularias the effects acceptable of modularias the effects are typical into an acceptable of modularia and in the espansive cells, modify 6 citas, and polypequides may be used to detect maturally centring mutations of the divertivedar disease, urimary incontinence, oesophagoal achalasia, ud chronic obstructive airways disease), cardiar disoracis (c.a path., aic Eradyarika or tachyardka, archythmia, flutter and fintiliation), and abnormalities during steep), pain arnorating méchanism disorders (e.g. related to irritable bowel syndrome (188), or chest pain), mosemen' disorders (e.g. related to Parkinson's disoase), eating disorders (e.g. , ast let, tely good as of a good or, do so long Eliking disorders (e.4, income appearance to the result of the paper at the figure (Fig. dishective polydipsia), smooth musch (elated disorders (e.a. 188). alandular disorders (e.g. xerostomia and diabetes mellitus).

36.2 AA; Sequence

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movement disorder; eating disorder; drinking disorder: ral.
Length 462;
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Score 1828; DB 20;
Fred. No. 6.9e 141;
8; Mismatches 16;
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of a human GPCK, these non-endormous human GPCKs can be useful for
the direct identification of candidate compounds as receptors agonists,
investe agonists or partial agonists for use as pharmaceutical agents.
AAAAAGIT to AAAAGIZ6 and AAAGAZK3 to AAGQZ859 represent sequences used in
the examplification of the present invention.
                                                                                                                                                                                                                                                                                                                                          the present invention describes transmembrane receptors, preferably human G protein compiled receptors (GPCR), for which the endogenous liquid is unknown (orphan GPCR receptors). More specifically the present invention relates to non-endogenous, constitutively activated versions
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## SUMMARIES

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                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Andrew D.J. Goodentl
TITLE OF INVESTION: MUSCAKING BEORFFORS AND USES HEREFOR HASE THE OFFICE OF THE SECOND OF STREET OF THE SECOND OF STREET OF THE SECOND OF STREET OF THE STREET OF ST
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100.0%; Pred. No. 6.5ec162;
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                                                                                                                                           Sequence 2, Application US/08985090
; Patent No. 5885453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDIUM TYPE: Floppy disk
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TYPE: amino acid
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7 M*183818 PPE: protein
US 08 985-090-2
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Rost Local Similarity
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RESULT 1
US +08 - 585 - (90 - 2
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                                                              121 SAPALAYTESYEET SYTEAVEYYDA AFPPPRANDRMIT VWYLAPTT YCYDALL SWIPYLSOG. 180
                                                                                  TOT I ALD EXPONENT PROPERTY PER POPPINA SPATIFIED WHIND OF STOPPINA VARIA
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TITLE OF INVENTION: Muscarinic Receptors and Uses Theretor
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REGISTRATION NOMERS: 3-5.55
REPERENT-CIECKET FIRESE: MNI-0-2CP
TELECOMMUNICATION INFORMATION:
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28 State Street
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                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 09/042,780
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; Palent No. 6093545
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(617)742-4214
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LENGTH: 445 amino acids
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PRIOR APPLICATION DATA:
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CORRESPONDINCE ADDRESS:
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MEDIUM LYPE: Floppy
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99.80; Fred, No. 5.1; 164;
(ye) 1; Mismatches 0; Indels
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; Patent No. 614659
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NUMBER OF SEQ ID NOS: 8
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APPLICANT: Lavenberg, limothy
APPLICANT: Erlander, Mark
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APPLICANT: Huvar, Arne
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SEQ ID NO 7
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US-09-167:354-7
                                                                                                                   Matches 445;
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61. ADSCHRIUNNFTEERINGAESPERVOAFTTERAVERVOERWEEGWEEGREIN IM VOMFFEEL STEEL

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460 LAND VSTPOLVRATVTILLRI DEVITETRETE DEVITETRETE SINGLINARISKEN MEDICHER 1794
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D.T. CLEIT PEAVEO PE TEODWOW, ROHORMETHETOVOTA AVARAGE T-599-

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181 SSTPROBEYAEFFYANTELLTASCLEBTTOTLOVTETWISTERNISKRIKAERAKAKARA 240
HELETTELTELTELTELTELTELTESTERTELTETTELTETTELTETTELTETTETTETTS
181 SSTPGBEYARTTVANYELLTASTERTTELSVITTWISTYLMI, BELIGLEBARGAEDAA 240
                                                                                                                                                                                                                                361 AVIVSTEGLOWAPTILLMCIESSEGNIETWIETSFWIEGRANSAVMOVEZPIEDHISFR 420
                                                                                                                                                        24.1. GPEPPPEAQPS/PPPPG/W.DWOKGHGEAMPLHRYGVGFAAVGAUA/HLATLGGGGGSV
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FILLE OF INVENTION: Museurinic Receptors and Uses Hierofor
NOMBER OF SEGIONALES. 39
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COMPULEK: IBM PC compatible
"PERATING SYSTEM: PC 1998/PG 1888
SOFTWARE: PATONTH Release #1.0, Version #1.25
APPLICATION NUMBER: 05/09/165,544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSHE: LAHIVE A COPRETEIL, HLP SIRBET: 28 State Street CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Filodboth A. Bankey
NESTRATIVE NUMBER, 2 CON-
REFERENCY-SELL NUMBER, DNI GGOTT
IELECOMSONICATIVE HEROMATION.
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Sequence 5. Application (1370°) condi-
Patent No. 6-93545
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IELEPAX. (*7771-121)
INCERNATION PAR SECTION POSTS
SECUENCY: CHARACTERITYS:
IENGTH: 445 amino acids
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Materalie TYPE: protein
US-09-165-543-5
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MEDIUM LYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FRIER APPLICATION DAFA:
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TITLE OF THYLHIGHT, MUGTAKIANC RUTTALISES AND JEDGE THEREFOR NORBERS OF SEGOLARIES 28
CORRESSONDENCE ADDRESS:
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SUBLECT APPLICATION DAIA:
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4.00 00,000 00,000 00,000 00,000 00,000 045
                                                                                                                     ; Sequence 5, Application US/08985090
; Patent No. 5885893
                                                                                                                                                                      Andrew D.J. Goodearl
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COMPULER: IBM PC COMPATIBLE
COLMAICAS UNSIEM: ET D. 1985-
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NAMEL Joan M. Silveri
RESISTRATION NUMBER: 39,030
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INFORMATION FOR SEQ ID NO: 5:
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; MellPULE FYPE: protein
US-08-985-090-5
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FRICK APPLICATION DATA:
APPLICATION NUMBER:
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STREET: 2c...
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7: Caps

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8; Mismatches

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Matribes 418;

Score 2216; DB 3; Length 445; Pred. No. 1.40-151;

92.2\*:

Query Match Rest Local Similarity 1. NIIVAH FINITZIANSUALAOLIANAWUMINISINAWI AVITAMIMALLI IVA I VILIBALUHIAFY 60.

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                                                                                                                                                                                                                                                                                                   144 AQGEDTRRAVRAMILUWVLAFILYOPATISWETISGESTIFKEHCYALITYSWYFILTAS 2003
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                                                                                                                                                                                                                                                                                                                                                  61 AQCODTRRAVRKMALVWVIAFILIXGFALISWEYLSGGSSIFEGHCYAEFFYWWYFLISAS 120
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TITLE OF INVENTION: Muscarinic Receptors and Uses Theretor
76.1%; Score 1828; DB 2; Length 362;
                                                                            indels
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                                      Pred. No. 6.9e-124;
R: Mismatches 16;
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TELECOMBULICATION INFORMATION:
TELEPHONE: (617)227 7400
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Patent No. 6093545
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COMPUTER: IBM PC COMPATIBLE
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REGISTRATION NUMBER: 33,505
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INFORMATION FOR SEQ 1D NO: 32:
SEQUERCH CHARACTER 17%:
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CORRENT PHAINS DATE: 1999-10-07
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APPLICANT: Back, Joseph A.
APPLICANT: Morsma, Frederiek J. Ji
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Spore 582: 78 D. Landth 479; Fred. No. 5.5e-36;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ELLINELERANDILLALLALLAL LUBITARIA 404
Matthes 155, Conservative 77, Mismatches 165, Indels 96, Saps
                                                                                                4. APPLAPLANCEDASSALAGINAAAASDAKGINAAWTAVLAAALMALLIVATVLOMALWHLAIVALS 63.
                                                                                                                                                                  ATVTSNILLVEISFRURI 74
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STREET: 4 Embarcadoro Center, Suite 3400
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FNEXEMATION FOR SEQ TO NO. 7:
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APPLICANT: TORNER, George J
APPLICANT: BETLACH, MATY C.
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APPLICANT: Schuster, David L.
TIFLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN
TITLE OF INVINITION: RECEPPORS, AND COMPOSITIONS AND METHODS THEREOF
                                                                                                                                                                                                                                                                                                                                Ouery Match
25.1%; Secre 602; DB 4; Length 479;
Best Local Similarity 31.4%; Pred. No. 6.5e-46;
Matches 195; Conservative 77; Mismatches 165; Indels 96; Gaps
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4)9 Seventh Street, N.W., Suite 300
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Patent No. 5508384
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SEGUENCE CHARACTERISTICS:
LENGTH: 479 amino acids
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MEDIUM TYPE: Floppy
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                                                                                        TYPE: amino acid
Topology: licear
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US-08-118-270-11
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33. L. EKRMEMVSQS-FLQRFRLSRGEKVAKSLAVTVSTFCLCWALTILLMTTRAACHSBCV (48)
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Rest Local Similarity 25.0%, Prod. No. 7.46 Gr.
Martches 125; Conservative 81; Mismatches 148; Indels 'err days
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STREET: 419 Seventh Street, B.W., Suite 400
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                                                                                                                        REFERENCE/TOO'R ET NUMBEK. MURPHY ZA
TELECOMMUNICATEN THISIANALUN:
TELECOMMUNICATEN 202 628 5197
TELECAX: 202-737-3528
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CONNERAL INFORMATION:
              PRIOR APPLICATION DATA:
ATTLCATOR MINISTER: US 02/944...0.0.
PLILING FAILE: 10.58P 1992
ATTORNEY/GURH TWESTMITES:
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INFORMATION FOR SEQ ID NO. 11:
0.9 SED 1994
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us 08-118-270-11
                                                                                        NAME: Townsend, Keyi
KELLELEKITON BUMBUK.
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SIATE: D.C.
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UNKENI APPLICATION DATA:
APPLICATION HOMBIR, PYLYBER 2009:28
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THELEPAX: 202-747-3528
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PRIOR APPLICATION DATA:
APPLICATION BAHBAN: 05-07/945,236
FILEND PATE: 10-880-1992
AT ERRY, A TOT DEPENDENT: 0
                                                                MEDSIUM LYPE: Floppy disk
CAMPHIER: IBM PT computible
OPERALING SYSTIM: PY EASYMY WAS
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Townsend, Keyin G.
STUGAS
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67; Mismatches 128; Indels 91; Gaps
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COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                         New York University
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COPRESPONDENCE ADDRESS:
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GENERAL INFORMATION:
APPLICANT: New York University
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CURRENT APPLICATION DAFA:
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PRIOR APPLICATION DATA:
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ALICHENYAGUHT: INPERMATION:
NAME: TOWNSCHA, KEVIN G.
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A;Residues: 1 460 - RES
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As Experimental Source: cerebral contex
As Note: only a part of the protein translation is given; none of the nucleotide sequence
Estartenhach, E., Cartis, C.A.M.; Pedder, E.R.; Altken, A.; Warris, A.C.M.; Bulme, E.C.
J. Biol. Chem. 265, 18702-18708, 1990
As Hitle: Muscarinic acetyleholine receptors. Peptide sequencing identifies residues involverence number: A87121; MHID:903-87982
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A;Aeression: A94293
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A;Residues: 1-460 -801>
R;Bonner, T.i.; Buckley, N.J.; Yound, A.C.; Brann, M.R.
Science 237, 527-532, 1987
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P.67 93/1-anin transmembrane #status predicted <TMD>
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C.Date: 30-Jun-1989 #sequenca_revision ?0 Ju
C.Accession. A94518, A94293; A37121; A29514
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Submitted to GenBank, July 1987
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A;Rusidaes: 1 227;338-490 ·Pr2·
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A;Accession: A94518
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C;Koywords: G protein-coupled receptor; glycoprotein; neurotransmiller receptor; phos
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F,62 9.C/aamain: transmembrane #staras predicted : M2 :
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Casaters, maders Califol, MTR STREET and
Aparessions A24425
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8,818., T., 104641, F., Hikagi, A., Hisda, A., Jakahashi, H., Michina, H., Hada, T.,
Nature 523, 411-416, 1986
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CySpecies: Sus scrofa domestica (domestic piq)
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F. 18. 18 Jacobin: transmembrane #stalus predicted [184]

F. 187 [292] Abomain: transmembrane #stalus predicted (186)

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R.Peralta, E.G.: Ashkenazi, A.: Winslow, J.W.: Smith, D.H.: Rumachandrun, J.: Capon. D.
EMB+J. 6, 3923-4929, 1987
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Ajtwsidnes: 1-460 cdnA.
Ajtwsid-references: BMRLXSDSR. NIDS434450, FIDN.CAA6241.1, Fib.da4451
Ajkwid-lar nucleolide Septemer was submitted to the IMBL bata library, Harch 1990
Eshland, W.J.; Starl, I.S.; Diwon, R.A.; R.A.;
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C.Superfamily: vertebrate Thodopsin
C.Skywords: Sprekein complete free plant; algeoprotein; neurotransmitter receptor; phosphe
F.25-SOZNOMAIN: Lansmembrane #status predicted «TMA»
F.62-G.Zhomain: transmembrane #status predicted «TMA»
F.100-L21/Domain: transmembrane #status predicted «TMA»
F.100-L21/Domain: transmembrane #status predicted «TMA»
                                                                                                                                                                                                                                                                                                                                                                                        A:Title: isolation, sequence, and functional expression of the mouse ML muscarinic acety
A:Reterence number: 892694; MUID:89084021
A:Aecession: A:1897
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A)Note: the authors translated the codon AFC for residue 119 ds Thr
R;Shapiro, R.A.; Scherer, N.M.; Habecker, B.A.; Subers, E.M.; Nathauson, N.M.
J. Biol. Chem. 264, 6596, 1989
A;Reference number: A92742
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J. Biol. Chem. 263, 18397-18403, 1988
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Cyspecies: Bos primiaenius taurus (cattle)
Cysate: 27-Jan-1995 #sequence_revision 27-Jan-1995 #text_change 18-Feb-2000
C.Species: Mas musculus (bouse mouse)
C.Date: 21-May-1990 #sequence_revision 21-May 1990 #text_change 24-Nov-1999
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submitted to GenBank, July 1987
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A.Residues: 1 479 · PER.
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A;Reterence number: $04326; MUID:88165632
A;Aevession: $10127
Askesidues: 104-166 -600k.
C)Superfamily, vertebrate rhadojsin
C)Superfamily, vertebrate rhadojsin
C)Keywords: 0 profein-coupled receptor; alycoprotein; neurotransmitter recoptor; transmemorane #857-90;toomain: transmemorane #8141us predicted *1ML>
E)104-124;homain: transmembrane #8141us predicted TM2
F:142-163;homain: transmembrane #8141us predicted TM3
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EMBO J. 6, 3923–3929, 1987
                                                                                                                                                                                                                                                                                                                                                                                                              F.184-206/Domain. transmembrane status predicted <PM5>
F.230-251/Domain. transmembrane status predicted <PM5>
F.9492-512/Domain. transmembrane status predicted <PM6>
F.9492-512/Domain. transmembrane status predicted <PM6>
F.527-545/Remain. transmembrane status predicted <PM7-
F.527-545/Remain. status predicted <PM7-
F.56.15.41,48,52/Rinding site: carbohydrate (Asn) (covalent) #status predicted
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Cybate: 31-Dec-1990 #sequence_rovision 31-Dec 1990 #lext_change 21-Rov-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ouery Match 22.6%; Score 542.5; DB 2; Length 589;
Host Local Similarity 25.7%; Pred. No. 5.7e·31;
Matches 138; Conservative 86; Mismatches 171; Indels 143.
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Cyclession: $34776; $3435

Bywn: Koppen, C.L.: Fond, W.: Nathonson, N.M.

Riochim. Biophys. Acta 1173, 42.344, 1994

A; Hitle: Isolation, sequence and functional expression of the mouse ma muscurinic acta, Filter Isolation, sequence and functional expression of the mouse may make a $4776; Millie9436741

A; Reference number: $43776; Millie9436741

A; Residues: 1-479 - KROP.

A; Cross references: [2861, Xs.174, MiD.q.296913; P; DNICYAA45071, L: Filt, a.co.914

A; Cross references: [2861, Xs.174, MiD.q.296913; P; DNICYAA45071, L: Filt, a.co.914

C; Capper Translity: Vertebrale Thodopsin Complete Thodopsin predicted - IML:
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P:82-57/Neumain; transmembrane #status predicted *IMi -
P-70-94/Neumain; fransmembrane #status predicted *IMi -
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2 species - Muscanius (bouse Mouse)
C:Date; 08:Dec 1993 #sequence regision Of Dec 1995 #fext change 24 New 1999
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Py433-456/Normain: transmembrane Estatus predicted TM7.
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Bost Local Similarity 25.6%; Pred. No. 9.7e 41;
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Cibate, 31 Mar 1992 Recipence_revision 31 Mar 1992 EteXt change.
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A.K. Cerence nomber, A77121, M916, 29337362
A.K. Cession, 197121
A.Statos: preliminary
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C:Roywords: G protoin-compled receptor; dlycaprotein; neurotransmitter (feeptor; pdAspbd
E:80-53(Dewein: transmewbrace motar)s prodicted (EB):
E:67-87/Demein: transmembrace mstatus predicted (TM2):
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Riochem. Biophys. Res. Cammun. 149, 125-132, 1987
Affile: A negel subtype of muscarinic receptor identified by hamology screening.
A;Reference number. A29476; MUID:88077068
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   152 AVEKRI I VWVI ATT I YOSA II SMOVI KITSELIFETIOVARITIYNIMYELI IAZILELI ELI 🗔 🗔
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                                                                                             Filos-126/Domain: transmenteror #status predicted // Filos-169/Domain: transmenteror #status predicted 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Toleta 139.
                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 27.0%; Pred. No. 3.6e-30;
Matches 141: Conservation 79, Missatches 144, Tedela 139
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F;142-163/Domain: transmembrane #status predicted <TM3>
F;184-206/Domain: transmembrane #status predicted <TM4>
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Best Local Similarity 25.0% Prod. No. 4.76 00;
Marches 195 Conservative 87; Mismarches 170; Indels 141; Gaps
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# SUMMARIUS

	Description				PILEDS Lamber Supplies		P12657 mus muscula	hos	F11483 sus serofa		PSRI73 hade adpict	120309 home saplen	Obniza4 pan troulod	Winda pronde pydnia	708483 raftus nors	Piffile Macara maia	PRINT MINS MISSELL	FO8912 Junto Sapien	F-8485 rattus norv	place and muscula	O60474 casta porce	P10980 rattus norz	POSSII rattus norr	Programmes and the gall		POS172 homo sapien		POSING SUB-STINE	P18871 sus serota		177	P22270 drosophila	PISSES Nome Suppose	
SURRAIN	10	HH4K HUMAN	ACM1 MACMU	ACM1_RAT	ACTEL_HUMAN	ACM1 PTG	ACM1_MOUSE	ACM TENVIN	ACM3_P1G	A'113_COEC	ACM1_HUMAN	ACM3_HUMAN	ACM *_FANTR	ACMATE FORMER	A:3M3_KAT	CHILDRY THIN	APMI_ MACSE	ACM5_BUMAN	A:M4_RAT	ACM3_MOUSE	ADAA_CAVI'''	A:M2_ RA1	ACMS_RAT	ACML_CRICK	A TE. M.C.	ACM2_HUMAN	ACM3_CHICK	ANTE-PIG	A2AA_P1G	ALMA BOVIN	ACM1_CHICK	OAK_DRUME	ALAC HUMAN	
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G-protein coupled receptor; Transmembrane; Glycoprotein;
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This SWISS-PROT entry is copyright. It is produced through a cell basistic between the SWISS institute of Ricinformatics and the EMBL outstation the European Bioinformatics Eastfule. There are no restrictions one fittings by non-profit institutions as long as its content is in no Way modified and this statement is not removed. Usage by and for commercial or send an email to license its Sibach).
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                               Marara mulatta (Rhesus Maraque).
Enkaryota: Metazoa; Chendata; Chaniata; Vertebrata; Enteleostomo:
Mammalia; Butheria; Primates: Catarthini; Ceregellheridees
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John M., Roeske W.R., Yamamura H.L.;
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between the Swiss Institute of Bioinformatics and the EMBL outsintent the European Bioinformatics and the EMBL outsintent the European Bioinformatics lustifute. There are no restrictions on its most by non-profit institutions as long as its content is in no way muchited and this statement is not removed. Beaver by and to community entities require a little profit of the profit in the way outlies require.
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R.LINKELF (SHEWAY, E.) (TREMAKEE).
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5 (POTENTIAL).
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This SWISS PROT entry is copyright. It is produced through a collaboration
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                                              346. QREHLISHERKVARSEAVIVSTFOL WAPYTELMFLLAARHEHOVTIVWYTETSING 105
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Alland W.J., Sigal I.S., Dixon R.A.F.,
"Sequence of the gene encoding the buman MI muscarinic acetylcholine
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chapman C.G., Browne M.J.,
"Isolation of the human wl (Ami) muscatinic acetyleholine receptor
gene by PCK amplification.";
                                                                                                                                                                                                                                                                                                                                                                  Bukaryota, Metazoa, Chardata, Graniata, Vertebrata, Enteleostomi:
Mammalia; Entheria; Primates, Catarrhini; Hominidae; Homo.
Strausberg R.,
Schmifferd (MAT 2001) to the ERBL/Abenka.AyDDBJ databases.
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Peralta E.G., Ashkenazi A., Winslow J.W., Smith D.H.,
Ramachandran J., Capon D.J.;
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                                                                                                                                                                                                                                                                01-JUL-1989 (Ref. 11, Created)
01-NOV-1990 (Ref. 16, Last Sequence update)
00-NOV-2001 (Ref. 40, Last annotation update)
MUSCARINIC ACETYLCHOLINE RECEPTOR MI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nucleic Acids Res. 15,10604 10604 (1987).
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entities requires a license agreement (see http://www.i.l-sib.es/cocamor/
or sand an email to licenserisb sib.ch).
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                                                                                                                                                                                          EMPT - M35128; AAA35686.1;
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-1- SUBCRELOIAN LOWATION, INTERNAL MEMBRAND PROTEIN.
-1 SIMILARITY BUDGAGS P-FAMILY I T O FETTIN SUBCES KEEDITES.

10. 7WIZZ FF LASTA TO FETTING IN THE PARKED THE EMBL OUTSLATION Between the Swiss Institute of Highlionmatics and the EMBL outstation
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Edto E., Pabuda F., Mibamia A., Wucha A., Takihiahi B., Mallina M.,
Haga E., Haga E., Phipama A., Kuntawi K., Rojima M., Marsuo H.,
Hilloso E., Ruma D.,
"Cioning, Sequencing and expression of complementary DNA encoding the
muscarinic acctylcholing relegion.",
                                                                          DETWY PMPMV, CAJANTRAJER, AUSTARIA LEGIR PROF
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13-AUG-1987 (Rel. 05, Last sequence update)
13-AUG-2001 (Rel. 46, Last annotation update)
MUSCARINIC ACETYLOPOLINE REFERENTI.
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                                                                                                                                                                                                   FUNCTION: THE MUSCAKINIC ACEPTAGOLINE RECEPTOR MEDIATES VARIOUS CELIBLAR RESPONSES, INCLUDING INHIBITION OF ADENYLATE CYCLASE, BREAKDOWN OF PHOSPHOINOSITIDES & MODULATION OF POTASSIUM CHANNELS
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J. Biol. Chem. 263;18397-18403(1988).
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10-Nov 1995 (Ref. 32, Last sequence update)
15-JUL-1998 (Ref. 36, Last annotation update)
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or send an email to license isb-sib.ch).
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89, Missatches 180, Indels 151, Caps
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                                                                                                                                                                                                                   GEATLAGG
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                     LXTRACHLOUANE (POTINETAL).
S. (POTENTIAL).
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LXTRACHLARIANE (POTENTIAL).
CXTRACHLARIANE (POTENTIAL).
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20-AUG-2001 (Ref. 40, Tast Sequence update)
20-AUG-2001 (Ref. 46, Last annotation apdate)
MUSCARINIC ACETYLCHOLINE RECEPTOR M3.
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                                                                                                                                                      Ellant I., Elbay Rowa H., Saitoa N.;
CLARCTICA (APR 2008) 19 II. P. IMPLYOPER PERFORMED HAS DELETED AND THE MOMENTA THE MOMENT OF THE MOMENT OF THE MOMENT OF THE PERFORMENT OF THE MOMENT OF THE MOMENT OF THE PERFORMENT OF THE PERFORMENT OF THE PERFORMENT OF THE APPROXIMATION OF THE
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SURTICIONAR LOYATTAR, TRIBUEN, MUSACANI PESTETN.
SIMHAKITY: BELOKUS TO FAMILY FOLG PESTEIN SOUTED KUTERSES.
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DOMAIN 67 EXTRA PALBINAR (POTENTIAL).
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Mammalia; Eutheria; Primales: Catarrhiki: Bominidae: Gorilla.
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Eubrighta, M. Garda, Charda, Cararda, Wattelala, E.F.N. attail.
Mammaila: Entheria: Primates: Catardini; Hominidae: Homo.
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Rounes T.L. Buckley N.D. Yoms A.F., Brain M.K.,

"identification of a family of muscarinic accepted genes.";
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Mandline workstly pubmeds 427-2174.
Monney T.I. vort A.V. Pron. M.P. For Play W. F.
"Cloning and expression of the human and raf mesearinic
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Foralta E.G., Ashkenazi A., Winslow J.W., Smith D.H.,
Estarbashon J., Capin D.C.,
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01-NAV-1988 (Rel. 09, Last Sequence update)
02-CC-2091 (Rel. 10, Last anodation opdate)
MUSCARINIC ACETYLCHOLINE RECEPTOR M4.
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between the Swiss institute of Birinformatics and the EMBL constantes
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PROSETE, PSOCZE, G_PROTEIN, BROBE, FL_1: 1.
Indepte, issolwe, G_FROTEIN, BROBE, FL_2: 1.
Postsynaptic membrane: Joure channel: Glycoprotein: Transmembrane:
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25.8%; Fred. No. 1.9e-24;
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This SWISS PROT entry is copyright. It is produced through a collaboration
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          the Swiss Institute of Bioinformatics and the EMBL outstation
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                                                                                                                                          386 PRREÇMAARERKVIRETEATLAAFTAIWIPENWAWAWIFEGESCHEDIWASTGIWINA 444
                                          Ass. Agladrement/Sygure 315
                                                                              424 PPP QPPACHDASHWSFOLTVIEL CHENTRALETVINGTHONG AADVASHIACIAFIN, 337
SHIBSSALDATEDERINATION TO SALTEMENTA (12)
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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Peralta E.G., Ashkenazi A., Winslow J.W., Smith D.H.,
Ramachandran J., Capon D.J.;
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01-FEB-1991 (Ref. 17, Last Sequence update)
20 ADC 2001 (Ref. 40, Last sequence update)
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Puropean Biointormatics Institute. There are no restrictions on its use by non-point institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial cutilities tegicine a ficture and taken as its content (see MITE), *** idea to commercial or send an email to license-libesib.ch).
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                                                                                                                                                                                                                                           Possibility of North Strainment (1986) Symptotic Community (1986) Symptotic membrane; Front Community Gyprotein coupled receptor, powaln [ 67 EXTRACELULAR (POTENTIAL).
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Best Local Similarity 26.1%; Pred. No. 2.5e-24;
Matches 147: Conservative 91, Mismatths 174, Ludels 152,
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                                                                                                                                                     PROSTIE: PSOU237; G_PROTEIN_RECEP_FI_L; 1. PROSTIE: PSOU262; G_PROTEIN_RECEP_FI_2; 1.
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This SWISS PROF entry is reported. It is produced through a co-laboration between the CATES DATING of Reinford and Los Mind outstates the Peropean Reinford matrix and the Peropean Reinford matrix for the answer is strictless on its way from profit institutions as long as its content is in no way.
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Mammalla, Entheria, Podentia, Sciutosnathi, Muridae, Muribae, Kaffus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CHECHLOLAR LETATETH, TREEDRAL MINHEANE PROTEIN.
SIMILARITY: BILLARED TO FAMILY 1 OF GIUSELLEIN COMPLET RECEPTORS.
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Bonner T.L., Buckley N.J., Young A.J., Krann M.K.;
"Identification of a family of muscaribic activided for receptor
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"Cloning and expression of the buman and raf m5 museurines
acetylcholine receptor genes.";
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"Site directed mutagenesis of the meaning receptor:
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                                                                                                                          FORMARS, UNUMERS, ON Creates)
01-ANG-1988 (Rel. ON, Creates)
01-ANG-1988 (Rel. ON, Last Sequence update)
01-ANG-2001 (Rel. 40, Last annotation update)
AGSSTALANA ACTIVE HELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELINERELIN
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POSESYBAPLIC MEMBRANC/ Tonic channel/ Clycoprotein; Fransmombranc/
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EMBL, M62826; AAA185311;
EMBL, M62826; BAA418311;
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Mammalia; Eutheria; Primales; Catarrhini; Corcopithecidae;
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	Manumajia; Butheria; Primates; Catarrhini; Rominidae; Rows.
KULEKEN, E	(x::x:)
AHTHORS	Nakusura, T., Hadani, H., Hidaka, W., chta, M. and Janaka, K.
1111E	Molecular cloning and characterization of a new numan histaniane
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Submitted (10 JUN 2000) Diraku Hadani, Banyu Harmmacentical
Co.,Lid., Biomedical Jabahateries, Skubo 3, Tsukuba, Baraki
300-2611, Japan (E-mail:Htadmihr<sup>o</sup>banyu.co.jp, Tél:81-298-77 2000,
Fax.9: 202 [7 202]
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01-MAR-2001 (FEMBLIEL 16, Last sequence update)
01-JUN 2001 (FEMBLIEL 17, Last annotation update)
01-JUN-2011 (HISTAMINE HEREETOR).
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Lovenberg T.W., Roland B.L., Wilson S.B., Jiang X., Pyati J.,
Huvar A., Jarkson M.K., Erlander M.G.;
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"Cloning of a novel 5 protein-coupled receptor.";
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6.1. VADSSERTCHRIFTERHALSBELVGVECHTYVETVERKEITGREDEREKEVETVERT 1255
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                                                                                   180 GSSTEPDH/YARFFYNWYF],ITASTI,EFFTPFI SVIFFN, STYLNIGKRIRIBI 167AFPA 2 (3
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                                                                                                                                             240 - ASTRITERIA SESTI I POSTWORWE KONERAMITERE I VOR AAVGATAN ALL ELI EUST LOOK
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Mammalia, Eutheria, Rodentia, Seiuroquathi, Muridae, Murinae, Raffus.
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Stark H., Schunack W., Ganellin K.G., Schwartz J. C., Arrang J. M.,
"High constitutive activity of the mative H3 receptor.";
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G PROTEIN COUPLED REFERENCE (HISTAMINE B) RECENTOR HAS ISABAR).
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"Cloning of a novel G profein coupled receptor.";
Superirod (1012-1998) for the PMPL Education
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88.1%; Pred. No. 2.6e-143;
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181 JASTERARY VARIATION WAS DEFINED FOR WHEELE STRUCK SETTING THE STRUCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   416 TAVIVSTENDIWALTILLMITERACIBER VELAWITTE WILMARIAVE VETUERBEE 419
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6.1. AGGSTRIÇABRETTURLA GOLFURYANIN HRIVYIN GIANI POPOTOKUNI VVIVYI I OASI I DO
                                                                                                                                                                                                                                    1911 JACOLOVI LODGLIGGY FANDER 1913 FERVERRIL VWY AFLLA OPALISWEYLSSE TRO
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     212 GEVTREBLEFFERIGEBETELFGSABGA TERREBAJETERER — PGGV30MGRGH3U 268
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Eukaryota: Metazoa: Chordata; Craniata; Vertebrata; Euteleostomi;
Archosamia: Aves, Neoquatlae, Galliloimes, Phasianidae, Plasianiae,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          88 TSYTI TOHWSLOSI ACDIJMI ALDYVASNASVMNI IJVI SEDPYFESTTEPLTYRAKE TUKR - 146
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 23.0%; Seore 553.5; DB 13; Length 528; Best Local Similarity 25.9%; Pred. Ro. 9c 33; Matches 135; Conservative 86; Mismatches 161; Indels 139; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28 WEVITTAAVTAVVSLITTVGNVLVMIGTKVNSQLKTVNNYYLLSLACADLIGHTSMR.Y B7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PROSTE: PS00237; G_PROTEIN_RECEP_F1_1; 1.
PROSITE: PS50262; G_PROTEIN_RECEP_F1_2; 1.
G-protein coupled receptor: Glycoprotein: Receptor: Transmembrane.
SEQUENCE 528 AA; 60048 MW; QB756AAZ795A564A CRC64;
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Last annotation update)
                                        360 LAVIVSTEGIZWAPYTLIMITRAACHGHCVPDYWYE 395
                                                                 MS MUSCARINIC ACETYLOHEALINE RECEPTOR.
                                                                                                                                                                                                                                                                                                     01-MAY-2000 (FremBLrel. 14, Created)
                                                                                                                                                                                                                                                PRT;
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Pfam; PFU0001; 7tm_1; 1.
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165; Indebs 66; Gaps
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I SERVEDINK LOCATION. INTEGERS. MINROAM POSTED (PYSHHIADELY)
I SERVEDINK LOCATION FOR THE PROPERTY FOR CONTRIBUTION (PARTICLE)
EMBL: AROAT 91: BAA94476.1:
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Mammalia, Entheria: Primates: Catarrhini: Beminidae: Bems
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"Silver Projecti";
Submitta J.(ARB 2010) (C. 15, 1999,45, 90-8,4004) databises.
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                                                                                                                                            01-orf 2000 (TERMINE). 15, Created)
01-orf 2000 (TERMINE). 15, Last Sequence update)
01 JUN 2001 (TERMINE). 17, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                     MOSSARIMEN ACHTERNICHME BINTER & M. (1900 MINI).
PET: 148 AA
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Prami PF00001: 7tm, L; 1.
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21.30, Score 511, 08 6, twindth 140,
27.78, Pred. No. 8.6e-30,
the 89 Misratches 165, indula 66, Cups
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PROSTER: PROCEST, C.PROTEIN_RECELLI. 1.
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(4) S. B. P. DRI VALLED ISSAES ANY LITTURE GAVERAGES IN FRANCHAMANIC, 103
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(7) TWO CARLAGES WESTLING LAST IN BLILD SPECIAL BARASHIA AND SEEDS.
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                                                                                                                                 354 ALSEVARALANINASTIELDMAPTILLESTERMORGREDVEN WILLISTWILMMAGANGENT 411
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25.7%; Frd. No. 8.6; 30;
ative 88; Mismatches 165; Indels 66; Gaps
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1. SURGIALDRAK KADALLOK, INTROKKA BANSKAMERS 1918 (ST. 2018) (ST. 2017).
1. STÆLLKKLIT, BRIGGRES TV FAMILA Í SKOLLÍK Skollák KUSLELÍKKÚ.
1888, ABGA1393, BAA94478.1; -.
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PROSTITE: PROD237; G_PKOTEIN_RECEP_FL_I: 1.
PROSTITE: PSSD262; G_PKOTEIN_RECEP_FL_I: 1.
G-protein coupled receptor: Glycoprotain: Receptor: Transmembrane.
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Fakaryola, Metazoa, Chordata, Craniala, Vertebrata, Enteleostomi;
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Gorilla.
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01-0CT-2000 (FFEMBLEL 15, Last sequence update)
-d. JUG 2001 (FIEMBLEL 17, Last annotation update)
HESCARTHE ACHTECHER ELECTRER ME (FRAGBLER).
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-! SUBCELLUIAR LOCATION. ENTERAL MEMBRARE FESTUR (BY STREITARITE).
!- SIMILARITY: RELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPPORS.
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Mammalia; Eutheria, Primates, Catarrhini, Hominidae, Pondo.
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01 JON-2001 (FERMELS). 12, Last annotation applate)
MUSCAKINE, AZELYEZHELINE RESERVER M.2 (FRAGMENT).
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01.0CT-2000 (TrEMBLEEL, 15, Last sequence update)
01.JDN-2001 (TrEMBLEEL, 17, Last annotation update)
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PROSTES: PRO0237; GICKRIDORSEN, RICHTILL 1.
PROSTEM: PSS9262; G_PROVEIN_RICHTILL 1.
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Bakaryota, Metazoar Arthropodar trachéatar Bezapodar Insecta:
Eteryapitar Neoptera: Bindopteryapitar Hymeroptera: Apartitar Aculeata:
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**Substitutional Probability of the IMBG/S admiss/Dubb databases.

**CHALLANDY*** BELGHES FO FARHIN 1 of a per ELIN coupe By EU/Plooks LAB. AZILIAND AZILIANDS. "AFFORM 1."

**LAB. AZILIANDS COUPERING FOR THE COUPER SERVICE OF THE ELIN COUPE BY EU/Plooks Plant PP000001; 71m 1: 1."
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Unpublished (1999) Contact: Robert Strausberg, Ph.D. Email: eqaphs-remail.nib.gov lissue Procurement: Alor

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Fax: 319-335 9565
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Swith, I.P. L. Grosser W.M., Freking, B.A., Pederts, A.L., Stone, E.L., Casses, E., Wardy, J.E., Wiffler, C., Cho, J., Fehrenkrup, S.C., Bennet, G.S., G., Heardon, M.E., Lorenterid, W.W., Rohreng, C., Chilkovekown, C.J., Perroa, G., Holto, L., Kreamycheva, S., Liane, P., Quaekenhoush, J. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Single pass sequencing, Bases called and alt_trimmed with placed vg.9809604.e. Vector identified by cross_match with the eminseone by
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                                                                                                                                                        104607 MARG IROV BOS FAHTUS CONA 57, MENA SOSPERIO
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0; Mismatches
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101: 419-445 R259.
Eax: 419-445 9505.
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Zdab host "loffler (Litte Tesmedoenes)"
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Program for Rat Gene Discovery and Mapping
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Single pass sequencing. Bases called and all_limmed with placed $20,900904.9. Vector identified by cross_match with the minscene 18 and Finnat. Lil. #flows.
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Bovidas, Bovinae, Bos.
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FO Box 166, Clay Scriter, ND 63933 0166, USA
Tel: 402 262 456
Fax. 402 762 4590
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Query Match best Local Similarity

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Sibility of Li Alk 2000; to the bABL, Terrib, That database this sequence is a simple road and was generated as part of already sequence is a simple project, of the Telraodon markoviridis sealer clour and sequencing project, of the Telraodon markoviridis quenome. For more information, please take a look at
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Goldman,G.H., Carvalbo,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H.,
Brunstein,A., decliveira,F.S., Bacher,P., Jongeneel,C.V., O'Barc,
M.J., Soares,F., Brentani,R.R., Reis,L.F., de Sonza,S.J. and
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This sequence was delived from the PARSEZINGE Bunch Cancer Gerome Project. This entry can be seen in the tallewing URL [9] as a formal bunch of the part of the control of the part of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the
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A. Marin, Adultin, Edition (base)

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Carninel,F. and Hayashizaki,Y.
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Riffin, L., Pohlfing, T., Soaros, M., Tan, F., Trevaskis, P., Waterston, N., Williamson, A., Wohldann, P., and Wilson, R.
The Washu Rick LDT Project
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9078412.31 Starcs addle brain N2LHBSSY Rome Sapiens STMA clone IMAGE:184055 37, MRNA sequence.
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Contact: Wilson RK
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division of Invitrogen 9800 Medical Conter Brine perbeitle. Maryland 2085n; USA Pax : (1) sol 610 8771 Email : thiang filocech.com UBL: 1.1 https://www.new.new.com/new.new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.com/new.co
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1.3			1956	-	US-08-313-553-6	Ġ,
14	175.2	8.5	1956	œ	115-08-767-993-6	'n,
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16	172.4		1581	~	- 292-	Sequence 8, Appli
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18	123.8		1173	4	US-09-414-010-1	_
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7	120.6		1466	7	IIS-08-487-811A-19	
7.7	120.6		1466	4	13.5 - (19 - (161) - 694 - 19	19,
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57	118.8		2140		US-08-334-698-1	,
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÷ 3	114	5.6	1218		US-08-351-473B-6	Sequence	5, Apr
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E)	3.11.	رم د :	1227	r 4	UR 08 351 4738 7	Sequence 7	7, Appl
3.6	111.4	5.4	1621		05 98 722-001 13	Sequence 1	13, A
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38	110	5.4	1227		US-07-916-901-1	Sequence	l, Appli
3.9	110	4.4	3683	4	US-08-450-962-1	Sequence ]	1, Apr
40	100.8	4.9	1367	~	US-U8-475-742-3	Sequence	3, Apr
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45	100.8	4.9	1370	u ';	PCF US93 07370 17	Sequence	17, App.

## ALIGNMENTS

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GG.48, GGG.41, DB.2, Length 2689;
Best Local Similarity 99.98; Pred, No. 1.4c-254;
Matches 1361, Conservative 9; Mismatches 1; Indels 2;
                                                                       GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL AND USES THEREFOR
TITLE OF INVENTION: MUSCARINIC RECEPTORS AND USES THEREFOR
                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                                                                              E. CABIVE & COCKFIBSD, DEP
28 State Street
                                                                                                                                                                                                                                                                                                                                                                                                                       060'1285'80,120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HAME: Jear H. Silveri
REGISTRATION NUMBER: 99,030
KULTCHCHCHCHCHSTINNER: MMI-032
TELEPHONE: (647)227-7400
TELEPHONE: (647)742-440
TELEPAX: (77)742-4214
                                                                                                                                                                                                                                                                                                                    MELTUM TYPE, FLUEDY HER
COMPUTER: IBM PC compatible
SPERATING SYSTIM FORMS/MS-DOS
                                     Sequence 1, Application US/08985090
Patent No. 5885893
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                         CLAIE, Massachusetts
COUNTRY: USA
2TP: 02109
                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
PRIOR APPLICATION DATA:
                                                                                                                                      THYMES OF REQUENCES. DISTRIBUTE ADDRESS:
                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM: MELTON TYPE, FLORET
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: linear MOLECULE TYPE: cDNA
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                                                                                                                                                                                                                      Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                Alderi Soffi.
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                  US-08-985-090-1
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99.9%; Pred. No. 1.4e·254;
live 0; Mismatches 1; Indels 0;
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Putent No. 6093545

CORNERAL NPERMATER:
APPLICANT Androw D.J. Goodcarl and Sandra Blucksman
TITLE OF HAUREL NA. Mass arithe Receptors and Uses Thorefor
NOMBER OF SEQUENCES: 39
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REGISTRATION NUMBER: 45,505
ELECELIPO 22 CYPETE HUBBEE: MELONGED
FELECOMBONICATION INFORMATION:
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COMPUTER: IBM PC compatible
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                                                                                                                                                                                       LENGTH: 2689 Lage pairs
TYPE: nucleic acid
STRANDEDNESS: single
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AFFLICANT: Huvar, Arne
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Pred. No. 2.2c 249;
O; Mismatches 1; Indels 0;
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REGISTATION NUMBER: 34,508
CHRESCHALZYYYTH WENTER: MHI 0420P
TELECOMMUNICATION INFORMATION:
ADDRESSER: LAHIVE & COCKFIELD, LLP
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MELIUM TYPE: Floppy disk
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nucleic acid
                                                                    28 State Struct
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APPLICATION NUMBER: 332
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FILE REFERENCE: JWW
CURRENT APPLICATION NUMBER: US/09/167, $54A
CURRENT FILLNO DATE: 1998-10-07
NUMBER OF SEQ ID NOS: 8
                                                                                                            ORGANISM: Artificial Sequence
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                                                                     APPLICANT: Andrew D.J. Poodearl and Sandra Glucksman
TITLE OF INVENTION. Massarinic Reveptors and Uses Theretor
NUMBER OF SEQUENCES: 39
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REGESTRATION NOMBER: 4,565
REFERENCYTOCKET NUMBER: MRI 042CF
TELECOMMONICATION INFORMATION:
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IBM PC compatible
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IFLEFAX: (617)742-4214
INFORMATION FOR SEQ ID NO: 4:
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APPLICATION NUMBER, 912,
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TITLE OF INVENTION: Muscarinic Receptors and Uses Therefor
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REFERENCE, DORKET NUMBER: MNI-032CP TELECOMMUNICATION INFORMATION:
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87.7%; Pred. No. 2.9e-156;
tive 0; Mismatches 128; Indels 5;
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NUMBER OF SEQUENCES: 39
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REFERENCE/DOCKET NUMBER: MN1-032CP
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28 State Street
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Patent No. 6093545
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                                                                                                                            APPLICANT: Andrew D.J. Sovskoarl
TITLE OF DWENTION: MOCTANTHES RECHTERS AND USES THEREPOR
TOTHER P. ANTICHES. 2 -
CORRESPONDENCE ADDRESS:
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COMPUTER: THM PC compact ble
OPERATING SYSTEM: PC 4205/MS-DGS
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TELECHONE: (617)227 7430
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SEQUENTE CHARACTERISTICS:
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TYPE: nucleic acid
STRANDEDNESS: single
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GENERAL INFORMATION:
APPLICANT: Andrew
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THILE OF INVENTION: Muscarinic Receptors and Uses Therefor
NUMBER OF SEQUENTIS: 39
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                                                                                                  NAME: Elizabeth A. Hanley
REGISTRATION NUMBER: 33,505
                                                                                                                                                                 TELEPHONE: (617)227-7400
TELEPAX: (617)224-241
INFORMATION FOR SEQ ID NO: 31: SEQUENCE CHARACTERISTICS:
                                                                              ATTORNEY/AGENT INFORMATION:
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APPLICANT: BETLACH, MALY C.
TILLE OF INVENTION: EXPRESSION OF HELEPOLOGOUS FOLKFEPTIDES
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STREET: 4 Embarcadero Genter, Suite 400
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STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
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COMPUTER: 18M PC compatible
OPERATIN: SYSTEM: PC-DOS/MS-DOS
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(415) 398-3249
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LENGTH: 1956 base pairs
TYPE: nucleic acid
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APPLICANT: BEILACH, Mary C.
TITLE OF INVENTION: EXPRESSION OF HETEROLOGOUS POLYPEPTINES
TITLE OF INVENTION: IN HALOBACIERIA
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Patent No. 5641650
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; OTHER INFORMATION: Znote "C to T mutation removes; OTHER INFORMATION: Znote "C to T mutation removes; OTHER INFORMATION: AlwNi restriction site."
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                                                                                                                                                                                                      SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA: APPLICATION NUMBER: 05/08/312,553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LOCATION: 427..435
OTHER INTERMATION: /note "ALAN: Jusing site.
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LOCATION: 376..414
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'THEP INFORMATION: pre sequence."
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4 Embarcadero Center, Suite 3400
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                                                                                                                                                                                                                                                                                             CLASSIFICATION: 435
PETCH APPLICATION DATA:
APPLICATION NUMBER: US/08/038,662
                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Dreger, Walter H. REGISTRATION NUMBER: 24,190 FFFFFFF, P. P. P. P. P. P. TELECOMMUNICATION INFORMATION:
                                                                                                                                                        COMPUTER: IBM PC COmpatible OPERATING SYSTEM. PC DCS/MS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPONE (415) 791 1999 TELEPAN: (415) 398-3249 INFORMATION FOR SEQ 1D NO. 8EQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                       ATTORNEY/AGENT INFORMATION:
                                                                                                                                       Ploppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 1581 Dase pairs
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Query Match 8.4%; Score 172.4; DB 1; Longth 1581;
Best Local Similarity 53.8%; Pred. No. 4.3e-25;
Hatches 73; Conservative 0; Mismatches 22; Indels 3; Caps
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<sup>798</sup> cetatieragagagaagetecateecegaagageeaetustatgeegagitettetacaaetg 857 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 9

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Latabase :

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Pred. Wo. is the number of results predicted by chance to have a score areafer than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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Nadani B., Makamena I., Otta M., Sakimuna D.

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wir binding protein conjugate type receptor protein for screening candidate drings for signal transduction modification

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this sequence encodes the human quanosine triphosphate binding protein (G-protein) conjugate-type receptor protein (designated BGZ) of the invention. BCZ is a member of the C protein conjugate type receptor super tamily and shows significant homology to other muserings aretyleholine receptors. BGZ can be used in a serecenting method for identifying figands binding to the BGZ receptor and for compounds which are agenists or antaqonists to the binding of liquids to BGZ receptor, and which can be used for the regulation of signal transduction, and thus for the prevention and treatment of memory and learning difficulties and disorders of the control of physiological functions such as blood Claim 2: Page 67-72; 77pp; English pressure, didestion and sleep. xxx88888888888888

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This nucleotide sequence, the coding region of which is elaimed, codes for a novel human G protein coupled teceptor, termed likely (see AAYOF422). The lihades convax identified in a human corebed lum chart library using a rail tilbady transment (see also \Delta AXYOF491) as probe the invertion provides human, rat and mease tilhades polymetreetides (including polymetreetides coreding the
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by administrational LIMBAG polyprophide activity such as nerious system
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This invention describes the isolation of a novel human muscarinic acetylcholine receptor 6 (mACHF-6), capable of modulating the effocts of acetylcholine an acetylchelia responsive cells, mACHF 6 (the consequence) and the polypeptides may be used to detect maturally occurring mutations of the mACHF-6 gene and determine it a subject with the mutated gene is at risk of (or is predisposed to have) a mACHF-6 related disorder, modulate cell activity mediated by mACHF-6 (o.g. belosical processes rediated by phosphatidylinositol turn-over and signalling), secretion of a molecule smooth muscle rell, freat disorders mediated by abnormal mACHF-6 activity e.g. a neurofransmitter or a glandular enzyme), or contraction of a smooth muscle rell, freat disorders mediated by abnormal mACHF-6 activity e.g. a neurosic spatial disorlengation, Kluyer-Hucy syndrome,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   disorders (e.g. REM sleep abnormalilies, paradoxical sleep abnormalilies, sleep-wakefulness, and body temperature or respiratory depression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    chronic obstructive airways discuse), cardiac disorders (c.e pathebegie
bradycardia or tachycardia, arrhythmia, Hutter and Fibrillation), and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                disorders (e.g. related to Parkinson's disease), eating disorders (e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             diverticular disease, urinary incontinence, oesophageal achalasia, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         abnormalities during sleep), pain generating mechanism disorders (e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Althermor's related memory loss and learning disability, visual hallucinations, perceptual disturbances, and hewry body dementia associated delicium), schizz elective disorders (e.g. schizzphredia with mood swings, and depressive illness), affective disorders, sleep
                                                                                                                                                                                                                 Nucleic acids encoding muscarinic acetylcholine receptor 6 - useful for modulating the effects of acetylcholine on acetylcholine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         related to irritable bowel syndrome (IBS), or chest pain), movement
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                      (MITTE ) MITTERNITAM FRAKK INC
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Sequence 2689 BP; 393 A; 990 C; 806 G; 500 T; 0 office

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                                                                                                                                                                                                                                                                                                                                                                                                              Novel HWA molecules useful in gene therapy for the treatment of
inflammation or allergy, or for encoding a human histamine H3 receptor
and identifying histamine receptor modulators that are useful as
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                                                                                                        Complete nucleofide sequence of cDNA encoding a histamine H3 receptor.
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This invention describes the isolation of a negal busas mass trinic accepted (MACHR-6), capable of modulation the effects of acceptability of acceptability of acceptability of acceptability occurring mutations of the polypeptides may be used to determine if a subject with the initiated gene is at fisk of (or is predisposed to have) a mACHR-6 related disorder, modulate cell of (or is predisposed to have) a mACHR-6 related disorder, modulate cell phosphatidy inositol turn-over and signalling), secretion of a molecule (e.g. a neurotransmitter or a dandaiar energy), or contraction of a molecule (e.g. a neurotransmitter or a dandaiar energy) or contraction of a molecule (e.g. a neurotransmitter) and signal disorders mediated by absorbing activity or a neurotransmitter of a smoothy of a monestic spatial disorders mediated by absorbing activity or a neurotransmit and disorders and learning disorders, spatial disorders and learning disorders (e.g. schirophyronia associated delirium), schiro-ethocative disorders, sleep
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     diabetic polydipsia), showdth Bookie related disorders (v.g. 183) and diverticular disease, urfnary incontinence, cosophadeal achalasia, and ediverticular disease afternic obstructive airways disease, tending disorders (v.g. pathelogia endycardia or tachycardia, arrhythmia, flutter and fibililation), and
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                                                                                                                                                                                                                                                                                                                                                                     mATHR-6; muscarinic acetylcholine receptor 6; disorder; secretion; acctylcheline responsive celt, physphatidylinesital ten ever; sheath method contraction nervous system disorder alandular; active disorder, after the disorder; alere disorder; alere disorder; movement disorder; eating disorder; drinking disorder; human; ss.
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The products can also be used for detection, diagnosis and drug
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This sequence encodes the rat quanosine triphosphate binding protein (G-protein) conjugate type receptor protein (designated BG2) of the invention. BG2 is a member of the O-protein conjugate-type receptor superfementy and shows squilticant benchony to other mescarinic acceptor superfequence. BG2 can be used in a sereening method for identifying lidands behalfor to the binding of an compounds which are agents to annualists to the binding of liquids to BG2 receptor, and which can be used for the regulation of signal transduction, and thus for the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Guanosine triphosphate Dindina protein; stanal transduction respiration; Optorein conjugate type receptor protein; learning difficulty; MAZZ. Mose orfule accipled fine receptor protein; learning difficulty; MAZZ. Blood pressure; diaestion; steep: thorapy; ss.
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82.9%; Fred. No. 2.70-151;
tive 0; Missatches 132; Indels 102; Caps
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disorders of the centrol of physiclogical functions such as blood
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Sequence 2700 BP; 476 A; 918 C; 749 G; 556 I; 1 other;
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triphosphate binding protein (6 protein) conjugate type receptor protein (designated 1812) of the invention. 1812 is a member of the 6 protein conjugate type receptor super family and shows starifficant handless to other muscarinic acted plottine receptors. 1812 can be used in a serventian method for identitying dispublic binding to the RGZ receptor and for compounds which are agonists or antagonists to the binding of Planaks to
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1396 - 0; Mismatches 22; Indels 0;
                                                                                                                                                                                                                                                             functions such as blood pressure, digostion and sleep.
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screening signal transduction regulators for use as drugs.
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